KCIA Winter Operations 2011

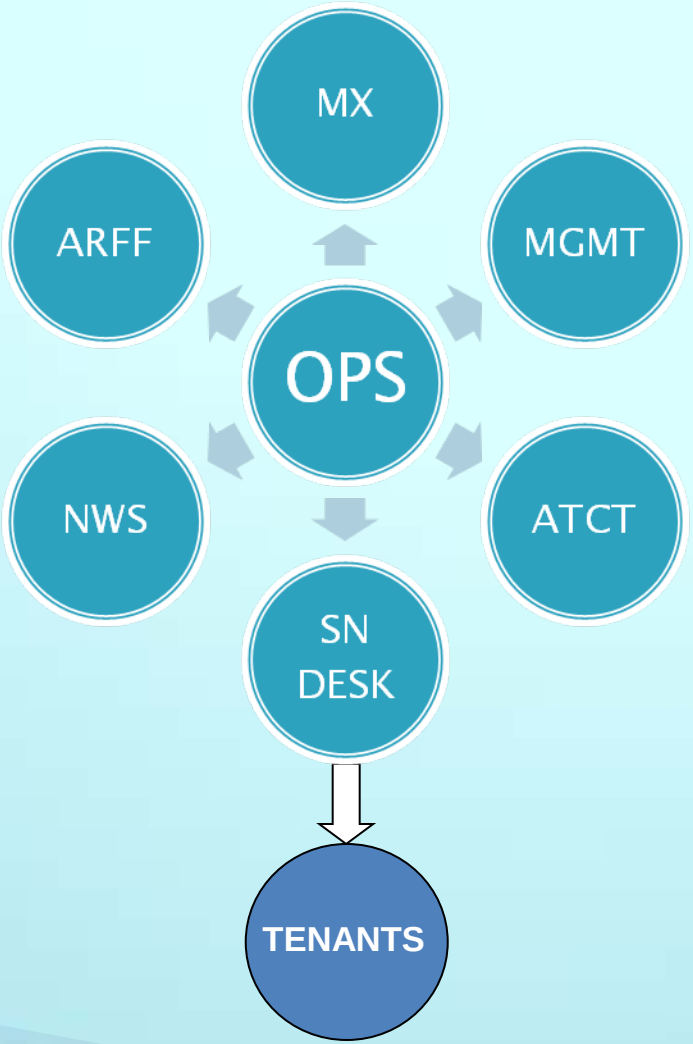
Winter Weather

- **Operations, Maintenance, and ARFF are responsible for continuous monitoring of adverse weather that would affect BFI.**
- **In the event of adverse weather, snow, ice conditions, Operations will receive hourly briefings from NWS, and relay such information to Maintenance Supervisors**
- **A minimum of 12 hours prior to the beginning of the storm, Operations will brief with Airport management, Maintenance, and ARFF.**
- **The type, magnitude and duration of the event will determine staffing levels and whether or not personnel will be placed on stand by.**
- **A minimum of one Airport Duty Manager and/or Maintenance supervisor and one (1) maintenance personnel will be on site during forecasted adverse conditions.**
- **Once the event has begun, Operations personnel and/or Maintenance supervisor(s) will begin notifications as necessary, monitor the weather, inspect and report airfield conditions. This will continue on a 24/7 basis to provide timely updates and assist in the snow removal process.**

Communication

- **Adverse weather – work shifts revert to 2-12 hour shifts for Operations and Maintenance.**
- **Snow Desk – Airport administration**
- **ATCT – Runway closures, braking actions**
- **NWS – Weather briefs**
- **Management – Timely updates**

Communication



Inventory

- KCIA has on hand for the 2011 winter season
- 4 plows
- 1 blower
- 1 de-icer truck – 1100 gallon tank
- 1 grader
- Liquid de-icer – E-36- 16,120 gallons
- Solid de-icer – Nac- 6600 lbs
- Vericom Decelerometer – Runway Friction Meter

Snow Removal Equipment

- KCIA utilizes snow plows, snow blowers, and de-ice trucks for snow/ice control.
- Friction values are obtained utilizing a Vericom Decelerometer.
- Snow removal is addressed by priority, beginning with Priority 1.
- NOTAMs are issued for updates to airfield current conditions.

Introduction to Runway Surface Friction Testing

- **A runway friction survey requires a minimum of <u>three</u> braking tests in each runway zone for a total of <u>nine</u> tests.**
- **These three zones include: Touchdown, Midpoint, and Rollout.**
- **Friction values are always reported in Mu (coefficient of friction)**

When to Conduct Friction Surveys

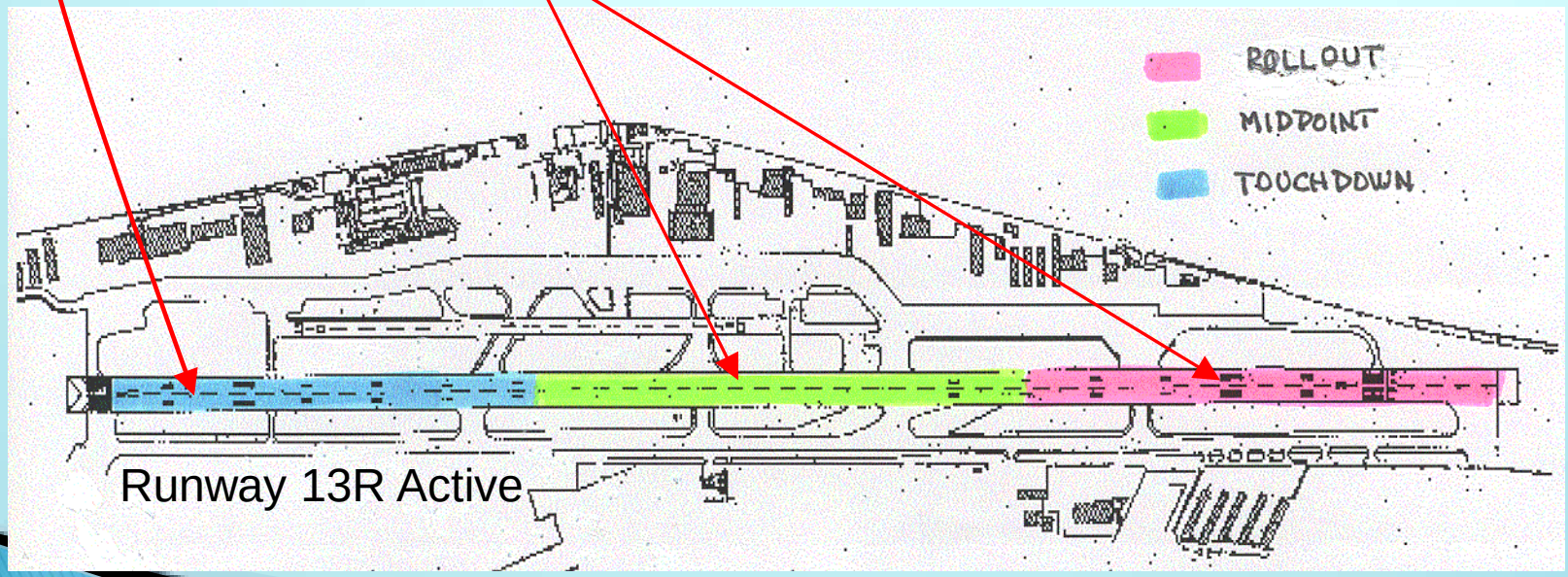
- **Whenever it is felt that the information will be helpful to overall snow/ice removal effort.**
- **When the center 60 feet of the runway is contaminated over a distance of 500 feet.**
- **Whenever visual runway inspections indicate that runway friction is changing.**
- **Must be conducted after snow removal prior to opening.**

When to Conduct Friction Surveys

- **Whenever pilot braking action reports indicate that runway friction is changing.**
- **Following anti-icing or de-icing operations.**
- **At least once during each 8-hour shift while contaminants are present.**
- **Immediately following any aircraft incident or accident.**

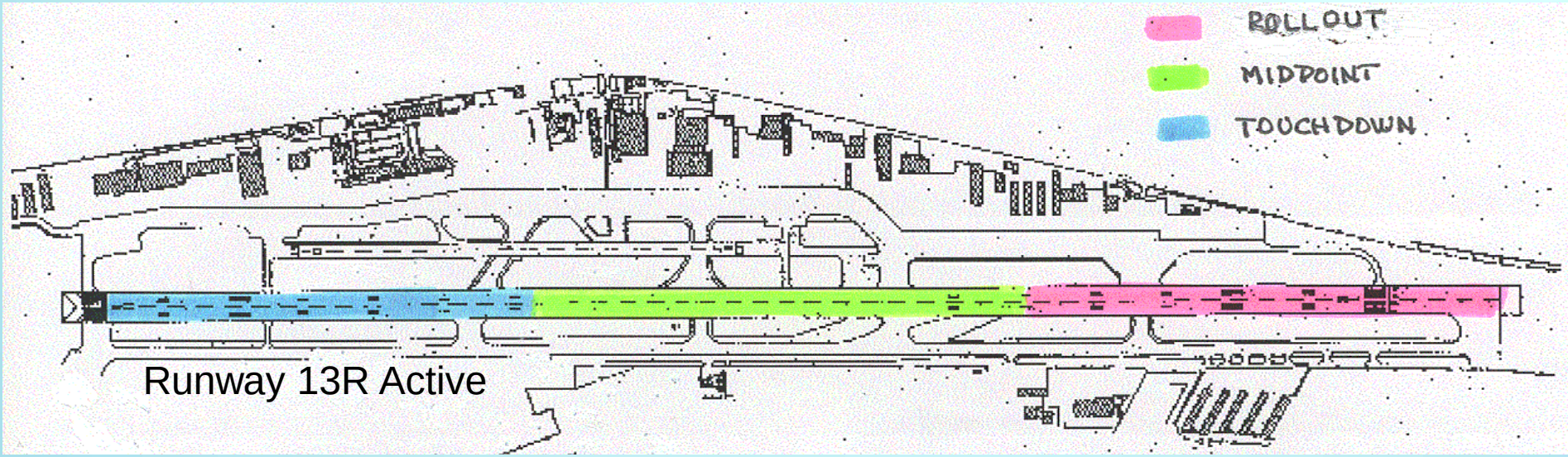
Friction Survey Locations

- **There are 3 zones or locations to conduct the friction survey:**
  - **Touchdown**
  - **Midpoint**
  - **Roll-out**



Friction Survey Locations

- **The friction survey should be conducted in direction of landing aircraft and should be 20 feet from runway centerline.**

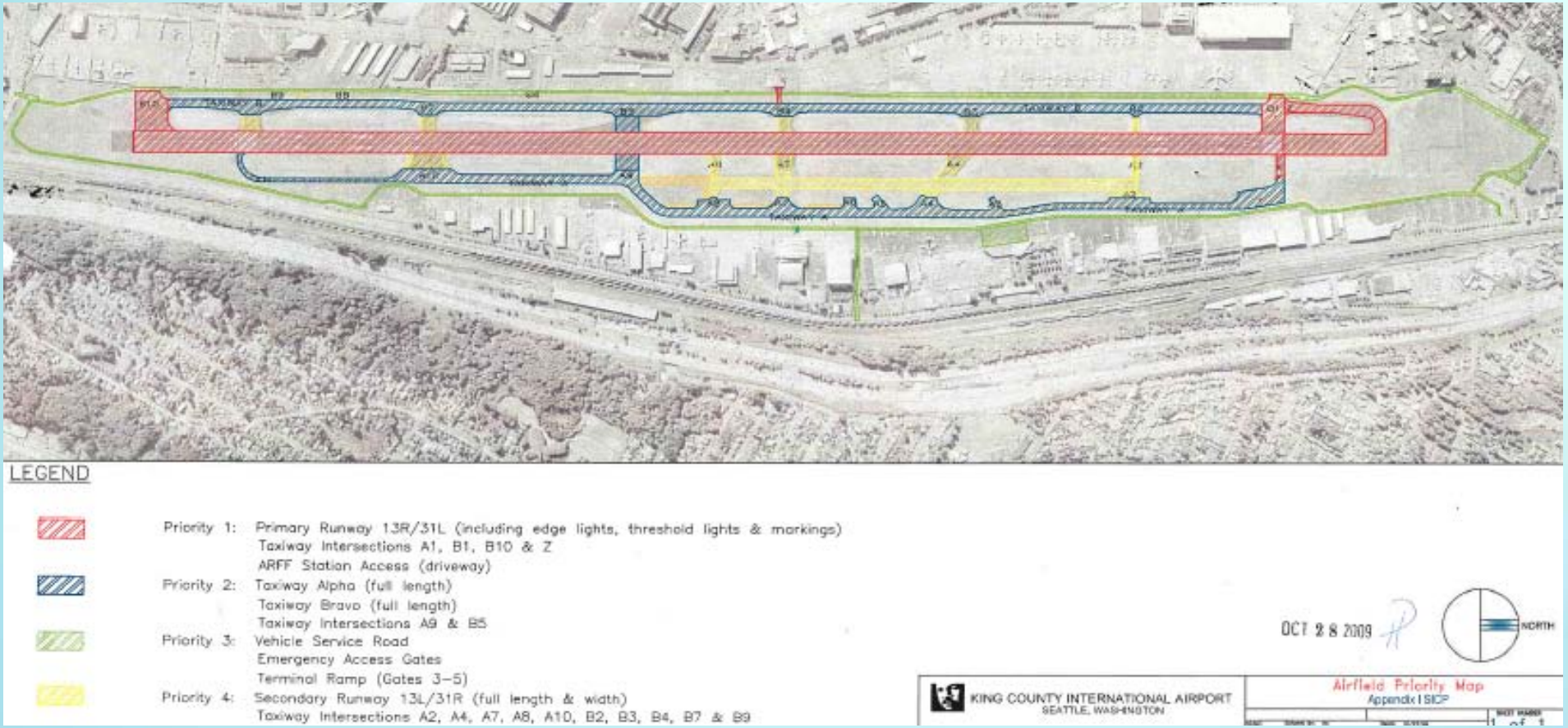


When To Report Friction Values

Friction values are reported when:

- **Compacted snow and/or ice are present on the center 60 feet of the runway AND friction values are below 40 on ANY zone of the runway.**
- **Friction values rise above 40 on ALL zones of the active runway previously showing a friction value below 40.**
- **NOTAM all Mu values under 40.**
- **Braking action is not reported as good/poor/fair only in Mu values.**

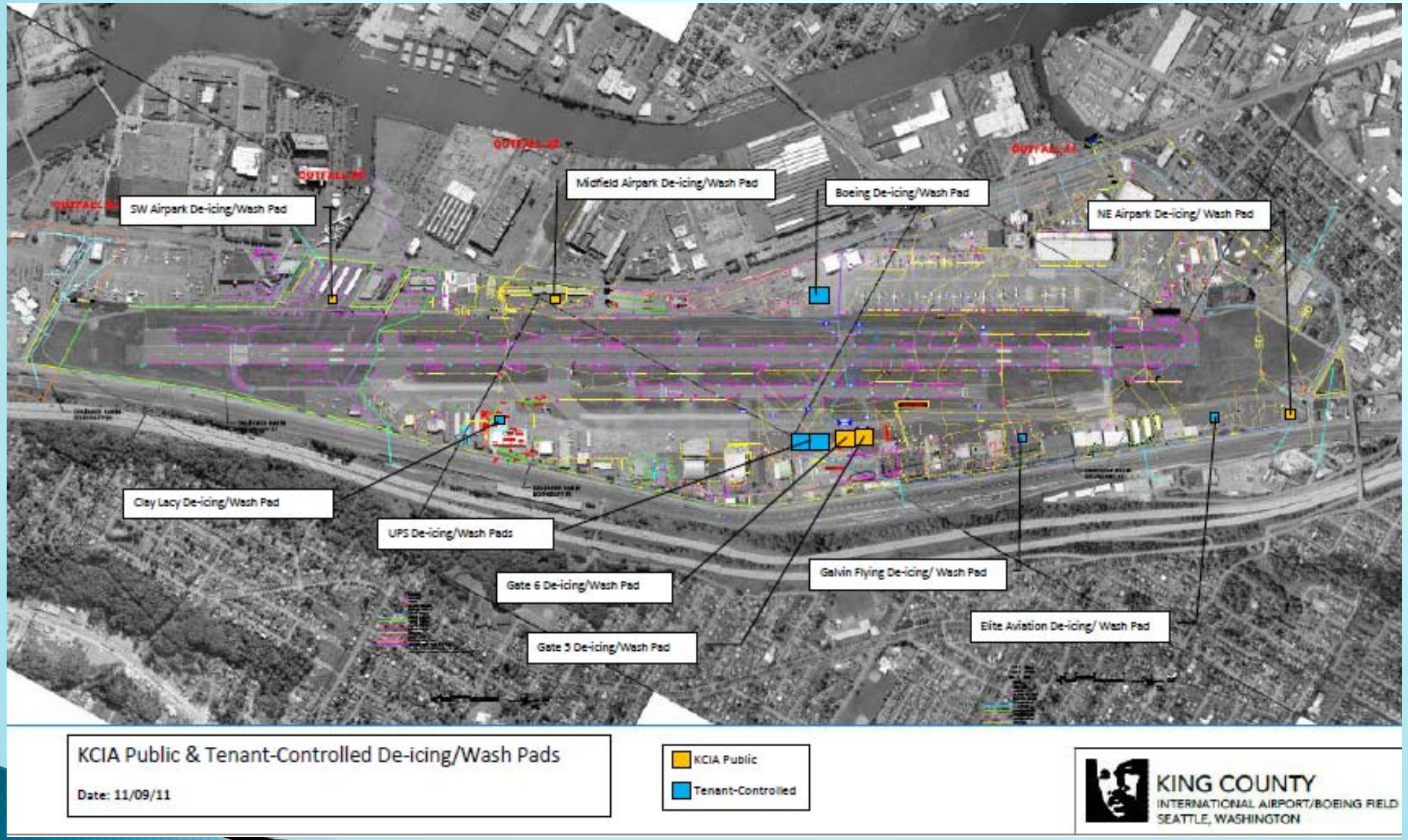
Priorities


LEGEND
Priority 1: Primary Runway 13R/31L (including edge lights, threshold lights & markings)
Taxiway Intersections A1, B1, B10 & Z
ARFF Station Access (driveway)
Priority 2: Taxiway Alpha (full length)
Taxiway Bravo (full length)
Taxiway Intersections A9 & B5
Priority 3: Vehicle Service Road
Emergency Access Gates
Terminal Ramp (Gates 3-5)
Priority 4: Secondary Runway 13L/31R (full length & width)
Taxiway Intersections A2, A4, A7, A8, A10, B2, B3, B4, B7 & B9
OCT 28 2009
NORTH
KING COUNTY INTERNATIONAL AIRPORT
SEATTLE, WASHINGTON
Airfield Priority Map
Appendix I SICP

De-icing

- **Tenants are responsible for de-icing their aircraft within approved areas. The approved areas are discharged to the sanitary sewer system.**
- **The airport’s de-icing period is during the months of November–February**

De-icing Locations



Tenant Responsibilities

- **It is the tenant's responsibility, including all fixed-based operators (FBOs) and other lease holders, to remove snow and/or ice on their leased areas.**
- **Coordination of snow/ice removal activities shall be made with Airport Operations when required.**

Airport Contacts

- **Airport Operations–206-296-7334**
- **Airport Police–206-296-7392**
- **Airport Environmental Engineer–206-296-7597**
- **Airport Administration–206-296-7380**

Questions/Comments